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Contents

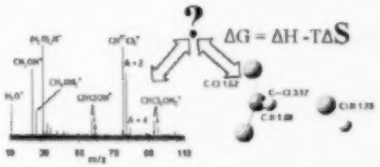
Regular articles

1–11

Proton transfer reactions of halogenated compounds: Using gas chromatography/Fourier transform ion cyclotron resonance mass spectrometry (GC/FT-ICR MS) and *ab initio* calculations

Indira K.C. Silwal, Jayendran C. Rasaiah, Jan E. Szulejko, Touradj Solouki

The combined use of GC/FT-ICR mass spectrometry data and *ab initio* calculations allows deciphering competing pathways for proton transfer reactions to improve unknown identification.

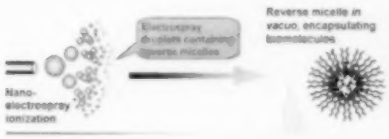


12–22

Multiply charged gas-phase NaAOT reverse micelles: Formation, encapsulation of glycine, and collision-induced dissociation

Yigang Fang, Andrew Bennett, Jianbo Liu

Use reverse micelles as nanometer-sized vehicles for transport of non-volatile biomolecules into the gas phase.

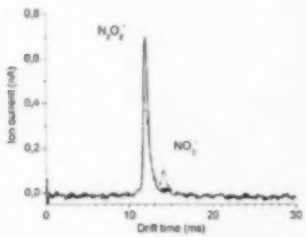


23–27

Atmospheric Pressure Corona Discharge Ionisation and Ion Mobility Spectrometry/Mass Spectrometry study of the negative corona discharge in high purity oxygen and oxygen/nitrogen mixtures

Martin Sabo, Ján Páleník, Marek Kučera, Haiyan Han, Hongmei Wang, Yannan Chu, Štefan Matejčík

Negative ions formed in negative corona discharge in high purity O_2 and O_2/N_2 mixtures have been studied using the Atmospheric Pressure Corona Discharge Ionisation Mass spectrometry (APCDI/MS) and Ion Mobility Spectrometry/Mass Spectrometry techniques (IMS/MS).



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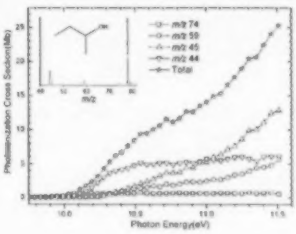
doi:10.1016/S1387-3806(10)00143-0

28–33

Determination of absolute photoionization cross-sections of oxygenated hydrocarbons

Mingfeng Xie, Zhongyue Zhou, Zhandong Wang, Dongna Chen, Fei Qi

Absolute photoionization cross-sections of 12 oxygenated hydrocarbons, including butanols, pentanols, MTBE, ETBE, furan and its derivatives, were measured near ionization thresholds to 11.5 eV.

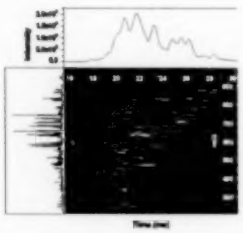


34–44

Characterization of an ion mobility-multiplexed collision-induced dissociation-tandem time-of-flight mass spectrometry approach

Yehia M. Ibrahim, David C. Prior, Erin S. Baker, Richard D. Smith, Mikhail E. Belov

We have developed and evaluated an approach for collision-induced dissociation (CID) using IMS–TOFMS instrument.

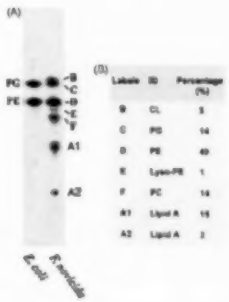


45–50

Application of electrospray ionization mass spectrometry to characterize glycerophospholipids in *Francisella tularensis* subsp. *novicida*

Xiaoyuan Wang, Ziqiang Guan, Yanyan Li, Christian R.H. Raetz

Glycerophospholipids extracted from *E. coli* and *Francisella novicida* were characterized by thin-layer chromatography (TLC) (A) and electrospray ionization mass spectrometry. Seven lipid species were identified in *F. novicida*.

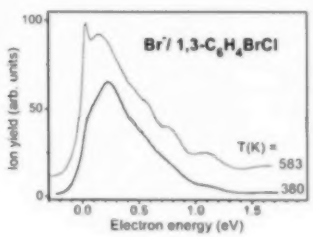


51–55

Temperature dependence of dissociative electron attachment to 1-bromo-2-chlorobenzene and 1-bromo-3-chlorobenzene

M. Mahmoodi-Darian, S.X. Tian, S. Denifl, S. Matejcik, T.D. Märk, P. Scheier

We have investigated dissociative electron attachment to bromo-chloro-benzenes at different gas temperatures. A pronounced temperature effect of the ion yield of fragment anions is observed.



Corrigendum

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Corrigendum to "Understanding reactions with O_2 for ^{90}Sr measurements by ICP-MS with collision reaction cell" by Favre et al. [Int. J. Mass Spectrom. 289 (2010) 177]

Rene Brennetot, Pierre Vitorge

Erratum

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Erratum to "Anharmonic contributions in real RF linear quadrupole traps" [Int. J. Mass Spectrom. 290 (2) (2010) 100–105]

J. Pedregosa, C. Champenois, M. Houssin, M. Knoop

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